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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/764,127	01/19/2001	Kohei Arakawa	003510-074	8100	
21839	7590 06/25/2003				
BURNS DOANE SWECKER & MATHIS L L P			EXAMINER		
	CE BOX 1404 RIA, VA 22313-1404	NGUYEN, DUNG T			
			ART UNIT	PAPER NUMBER	
			2871		
		DATE MAILED: 06/25/2003			

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary

Application No. 09/764,127

Applicant(s)

Arakawa et al.

Examiner

Dung Nguyen

Art Unit **2871**



The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the						
- If the p - If NO p - Failure - Any re	date of this communication. period for reply specified above is less than thirty (30) days, a reply within the period for reply is specified above, the maximum statutory period will apply a to reply within the set or extended period for reply will, by statute, cause the ply received by the Office later than three months after the mailing date of the patent term adjustment. See 37 CFR 1.704(b).	and will expire SIX (6) Money are application to become	ONTHS fr	om the mailing date of this communication. NED (35 U.S.C. § 133).		
Status 1) 💢	Responsive to communication(s) filed on Jan 19, 2	001		·		
2a) 🗌	This action is FINAL . 2b) 💢 This act					
3) 🗆	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11; 453 O.G. 213.					
Disposi	tion of Claims					
4) 💢	Claim(s) <u>1-12</u>			is/are pending in the application.		
4	la) Of the above, claim(s)			is/are withdrawn from consideration.		
5) 🗆	Claim(s)			is/are allowed.		
6) 💢	Claim(s) <u>1-12</u>			is/are rejected.		
7) 🗆	Claim(s)			is/are objected to.		
8) 🗆	Claims	are s	ubject	to restriction and/or election requirement.		
Applica	tion Papers					
9) The specification is objected to by the Examiner.						
10) ▼ The drawing(s) filed on						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11)) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner					
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☑ All b) ☐ Some* c) ☐ None of:						
	 Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No. 					
 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage 						
application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received.						
14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).						
a) \square The translation of the foreign language provisional application has been received.						
15) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
1) Notice of References Cited (PTO-892)		4) Interview Summary (PTO-413) Paper No(s).				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		5) Notice of Informal Patent Application (PTO-152)				
3) 💢 Information Disclosure Statement(s) (PTO-1449) Paper No(s)						

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DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Specification

2. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claim 1 recites the limitation "the axis of the molecular helix" in line 5. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 1- 4, 6-12 are rejected under 35 U.S.C. 102(b) as being anticipated by Nagae et al., US Patent No. Re.33,120.

The above claims are anticipated by Nagae et al. figures 2-3 which disclose a polarizing element (figure 2) comprising:

- . a polarizer (132) having a transmission axis (132);
- a ferroelectric liquid crystal layer (10) exhibiting chiral smectic texture of a helical configuration (see table 1 and col. 3, ln. 38), wherein an axis of the molecular helix of the helical configuration is along a direction other than a normal direction (e.g., 45 degrees)(col. 4, ln. 13) and a direction of an orthogonal projection of the molecular helix axis onto the surface of the liquid crystal layer (i.e, long axis of the ferroelectric molecule 1) is 90 degrees with respect to the transmission axis of the polarizer (32);
 - . a transparent substrate (e.g. plastic);
- . natural light being incident from the normal direction to the surface of the liquid crystal layer to yield linearly polarized light having components as claimed (see col. 4, lines 14-46).

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are

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such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

8. Claims 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nagae et al., US Patent No. Re.33,120, in view of Ichikawa et al., US Patent No. 4,985,285.

Regarding claim 5, Nagae et al. do not disclose an iodine type polarizing plate having a degree of polarizing of at least 98%. Ichikawa et al. do disclose the use of an iodine type polarizing sheet having a degree of polarization of 98% (see col. 8, ln. 65-67). Therefore, it would have been obvious to one skilled in the art at the time of the invention was made to modify the Nagae et al. polarizing sheet having an iodine type as taught by Ichikawa et al. in order to improve an LCD contrast ratio and an angle of vision dependency (col. 9, ln. 6).

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Dung Nguyen whose telephone number is (703) 305-0423. The Examiner can normally be reached on Monday-Thursday

If attempts to reach the Examiner by telephone are unsuccessful, The Examiner's supervisor, Robert H. Kim can be reached on 703-305-3492. The fax phone numbers for the organization where this application or proceeding is assigned are 703-746-7730 for regular communications and 703-308-7726 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application should be directed to the group receptionist whose telephone number is (703) 308-0956.

DN

06/23/2002

Dung Nguyen Patent Examiner

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